

CUMULATIVE INDEX OF VOLUMES 21-30

ABBATI, M.C. and A. MANIÀ: The G -central decompositions of states of statistical systems in the algebraic and in the operational description	21 (1985)	291-307
ACCARDI, L. and LU YUN GANG: Squeezing noises as weak coupling limit of Hamiltonian system	29 (1991)	227-256
AKASHI, S.: Operator theoretical treatments of ϵ -entropy of a Gaussian process per unit time	24 (1986)	343-349
ALDROVANDI, R., and J.G. PEREIRA: Existence of Lagrangians for the Yang-Mills equations	26 (1988)	237-243
ANGHEL, N.: Remark on Callias' index theorem	28 (1989)	1-6
ARENS, R.: The gauge group of the Dirac system	23 (1986)	247-255
ARINGAZIN, A.K. and G.S. ASANOV: Problems of Finslerian theory of gauge fields and gravitation	25 (1988)	185-243
ARKHIPOV, A.A.: On single-time reduction in quantum field theory	23 (1986)	83-98
ASANOV, G.S., see ARINGAZIN, A.K. and G.S. ASANOV		
—: Finslerian fibered extension of gauge field theory: Lie-invariance in fibres and effective Lagrangian	26 (1988)	367-399
—, and M.V. KISELEV: Comparing the Finslerian gauge approach with the $SU(3) \times SU(2) \times U(1)$ -model	26 (1988)	401-411
—: Finslerian and higher-order structure of space-time: Lie-invariance in fibres	28 (1989)	263-287
—, and P.C. STAVRINOS: Finslerian deviations of geodesics over tangent bundle	30 (1991)	63-69
ASOREY, M., L.J. BOYA and J.F. CARIÑENA: Covariant representations in a fibre bundle framework	21 (1985)	391-404
ASSAR, A.-R.: On Mackey's subgroup theorem	24 (1986)	57-64
ATAKISHIYEV, N.M. and K.B. WOLF: Generalized coherent states for a relativistic model of the linear oscillator in a homogeneous external field	27 (1989)	305-311
AZCÁRRAGA, J.A. DE, J. LUKIERSKI and J. NIEDERLE: Contractions yielding new supersymmetric extensions of the Poincaré algebra	30 (1991)	33-40
BACH, V.: A proof of Scott's conjecture for ions	28 (1989)	213-248
BATES, L.M.: Symmetry preserving deformations of the Kepler problem	26 (1988)	413-428
—: Geometric quantization of a perturbed Kepler problem	28 (1989)	289-297
BATTLE III, G.A.: Federbush mode decomposition of φ_2^4	22 (1985)	205-226
BAUMANN, K.: On ray representations of the inhomogeneous Lorentz group in $1 + 1$ -dimensions	30 (1991)	181-184
BAUMGÄTEL, H. and M. WOLLENBERG: Weak asymptotic abelianess with respect to space-like directions for a class of nontrivial weakly local massive Wightman fields	23 (1986)	109-114
BAUMGARTNER, B.: Random walk and diffusion in a stochastic lattice gas model	22 (1985)	295-311
— and H.-R. GRÜMM: Dynamical and Hamiltonian dilations of stochastic processes	22 (1985)	313-322
BELAVKIN, V.P. and P. STASZEWSKI: A Radom-Nikodym theorem for completely positive maps	24 (1986)	49-55
—: Multiquantum systems and point processes. I. Generating functionals and nonlinear semigroups	28 (1989)	57-90
—, and P. STASZEWSKI: A continuous observation of photon emission	29 (1991)	213-225
BENN, M. and R.W. TUCKER: $SO(r + 2, r)$ pure spinors	24 (1986)	241-256

- BEREZANSKY, YU.M.: The integration of semi-infinite Toda chain by means of inverse spectral problem 24 (1986) 21-47
- : A spectral approach to quantum stochastic integrals 28 (1989) 347-360
- BERG, H.P.: Classical mechanics of a breathing top 22 (1985) 1-9
- BETTE, A.: On the Lorentz particle with spin — a twistorial approach 28 (1989) 133-140
- BINDER, J.: On the interplay of the centre and the state space in quantum logics 24 (1986) 337-341
- BINZ, E.: Isometric Euclidean embeddings of a compact manifold form a Fréchet manifold 26 (1988) 157-167
- : On the notion of the stress tensor associated with R^n -invariant constitutive laws admitting integral representations 27 (1989) 49-58
- BLANCHARD, PH. and J. REZENDE: Upper bound for the heat kernel for conformally Euclidean manifolds 27 (1989) 1-10
- BLAU, M.: Symmetries and pseudo-Riemannian manifolds 25 (1988) 111-118
- BLAZQUEZ, C. and J. LLOSA: Classical spin particles: a kinematical approach 30 (1991) 131-148
- BOGUSH, A.A.: Universal matrix form of the joint field equation in the standard electroweak interaction theory 25 (1988) 275-290
- BOLLÉ, D., F. GESZTESY, C. NESSMANN and L. STREIT: Scattering theory for general, non-local interactions: Threshold behavior and sum rules 23 (1986) 373-408
- BORCHERS, H.-J.: Some remarks on the second law of thermodynamics 22 (1985) 29-48
- BOSE, S.K. and R.N. SEN : Implementing the Bogolubov-Valatin transformations on a Hilbert bundle 23 (1986) 139-153
- BOYA, L.J., *see* ASOREY, M., L.J. BOYA and J.F. CARÍENA
- : The geometry of compact Lie groups 30 (1991) 149-162
- BRUNET, M.: The metaplectic semigroup and related topics 22 (1985) 149-170
- BRÜNING, E.: On the construction of fields and the topological role of Jacobi fields 21 (1985) 143-158
- BURNAT, M., and A.M. GRUNDLAND: Canonical solutions of the autonomous partial differential systems 30 (1991) 71-80
- CALOGERO, F.: Integrable many-body problems in more than one dimension 24 (1986) 141-143
- CARÍENA, J.F., *see* ASOREY, M., L.J. BOYA and J.F. CARÍENA
- and M.F. RAÑADA: Hamiltonian formalism and time transformations in the extended phase space $T^*(Q \times R)$ 30 (1991) 89-106
- CASSINELLI, G., and P. TRUINI: Quantum mechanics of the quaternionic Hilbert spaces based upon the imprimitivity theorem 21 (1985) 43-64
- CHRUŚCIŃSKI, D.: Symplectic structure of the von Neumann equation 29 (1991) 95-99
- CIECHANOWICZ, S., *see* OZIEWICZ, Z. and S. CIECHANOWICZ
- CISLO, J., and Z. STRYCHARSKI: New fermion solution of two-dimensional Ising model on a generalized square lattice 28 (1989) 159-166
- , *see* STRYCHARSKI, Z., J. CISLO and J. JANICKI
- COHEN, D.W. and G.T. RÜTTIMAN: On blocks in quantum logics 22 (1985) 113-123
- COOK, T.A. and G.T. RÜTTIMANN: Symmetries on quantum logics 21 (1985) 121-125
- CORTIZO, S.F.: Classical mechanics — on the deduction of Lagrange's equations 29 (1991) 45-54
- CRAMPIN, M. and D.J. SAUNDERS: The sine-Gordon equation, Tchebyshev nets, and harmonic maps 23 (1986) 327-340
- CRUMEYROLLE, A.: Physical symmetry groups and associated bundles in field theory 23 (1986) 115-128
- : The primitive idempotents of the Clifford algebras and the amorphic spinor fibre bundles 25 (1988) 305-328
- : Isotropic vector fields on spheres, spinor structures on spheres and projective spaces 28 (1989) 27-37
- CYCON, H.L. and C. ERDMANN: Absence of high energy resonances for many-body Schrödinger operators 23 (1986) 169-176
- CZYŻ, J.: On graded bundles and their moduli spaces 23 (1986) 199-246

- D'APRILE, M. and V. MARINO: A geometric method to determine PDE conservation laws 30 (1991) 169-175
- DELL'ANTONIO, A.F.: Non-linear electrostatics in inhomogeneous media 26 (1988) 169-189
- DEREŻYŃSKI, J.: Boson free fields as a limit of fields of a more general type 21 (1985) 405-417
- : Exponential bounds in cones for eigenfunctions of N -body Schrödinger operators 24 (1986) 219-228
- DHOOGHE, P.: Evolution equations and $sl(2, \mathbb{R})$ -valued Bäcklund forms 21 (1985) 159-175
- DOBREV, V.D.: Canonical construction of differential operators intertwining representations of real semisimple Lie groups 25 (1988) 161-183
- DORFMEISTER, G.: Proof of the GLZ-equation for the adiabatic limit of axiomatically derived graphwise defined retarded distributions 27 (1989) 113-125
- : Comparison of subtraction terms in two renormalization schemes 27 (1989) 127-144
- : Graphwise defined retarded distributions for an LSZ-field theory 28 (1989) 373-387
- DORMALE B.M. DE: Perturbation theory for relativistic Lee model 21 (1985) 35-42
- DVUREČENESKIJ, A., *see* PULMANOVÁ, S. and A. DVUREČENESKIJ
- EIJNDHOVEN, S.J.L. VAN and J. DE GRAAF: A mathematical interpretation of Dirac's formalism. Part A: Dirac bases in trajectory spaces 22 (1985) 177-188
- , —: A mathematical interpretation of Dirac's formalism. Part B: Generalized eigenfunction in trajectory spaces 22 (1985) 189-203
- , —: A mathematical interpretation of Dirac's formalism. Part C: Free field operators 23 (1986) 299-326
- ENGLISCH, H. and P. ŠEBA: The stability of the Dirichlet and Neumann boundary conditions 23 (1986) 341-348
- : The phase formalism for one-dimensional random Schrödinger operators 24 (1986) 315-326
- and P. ŠEBA: Cooper pairs with point interaction 30 (1991) 9-13
- ERDMANN, C., *see* CYCON, H.L. and C. ERDMANN
- EXNER, P. and P. ŠEBA: Free quantum motion on a branching graph 28 (1989) 7-26
- FORTE, B. and W. HUGHES: The maximum entropy principle: a tool to define new entropies 26 (1988) 227-235
- FRACKIEWICZ, K.: A multisymplectic description of the Einstein-generalized Born-Infeld theory 22 (1985) 257-273
- : A canonical approach to the Einstein-generalized Born-Infeld theory 22 (1985) 275-292
- FRIEDRICH, J. and L. KLOTZ: On extensions of positive definite operator-valued functions 26 (1988) 45-65
- GANG, LU YUN, *see* ACCARDI, L. and LU YUN GANG
- GARCZYŃSKI, W.: Measure in the functional integral over the configuration space 25 (1988) 75-97
- GARSEVANISHVILI, V.R. and M.B. SHEFTEL: On the choice of invariant variables for two-particle processes 29 (1991) 85-94
- GESZTESY, F., *see* BOLLÉ, D., F. GESZTESY, C. NESSMANN and L. STREIT
- and W. SCHWEIGER: Rational KP and mKP -solutions in Wronskian form 30 (1991) 205-222
- GIELERAK, R.: Vacuum energy density in $\mathcal{P}(\varphi)_2$ theories. Independence of (non-classical) boundary conditions (modified version) 24 (1986) 145-154
- : Vacuum energy densities in the $\mathcal{T}(\varphi)_2$ Euclidean field theory 30 (1991) 177-179
- GINOCCHIO, M. and M. IRAC-ASTAUD: A recursive linearization process for evolution equations of algebraic functionals 21 (1985) 245-265
- GISIN, N.: The property lattice of spatially separated quantum systems 23 (1986) 363-371
- GLAZEBROOK, J.F.: On linear systems and higher dimensional gauge fields 25 (1988) 143-149
- : A note on families of Dirac operators 27 (1989) 345-348
- GLAZKOV, D. YU.: Differential geometric connection of finite order on composite manifold, infinitesimal polygonal loops and generalized Fermi-Walker transport 30 (1991) 107-118
- : Differential geometric connection of finite order on composite manifold, infinitesimal polygons and geometric interpretation of Bianchi identity 30 (1991) 249-257
- GONCZAREK, R.: Realization of the Onsager lemma in metric space 23 (1986) 31-40
- GOSZCZYŃSKI, P.: Commutator eigenvalue problem for finite groups 21 (1985) 17-33

- GOULD, M.D.: Casimir invariants and infinitesimal characters for semi-simple Lie algebras 27 (1989) 73-111
- : Classification of infinite dimensional irreducible modules for type I Lie superalgebras 30 (1991) 361-378
- GRAAF, J. DE, *see* EIJNDHOVEN, S.J.L. VAN and J. DE GRAAF
- GRABOWSKI, M.: Modified Gibbs state for an ideal atomic hydrogen gas 23 (1986) 19-29
- : The entropy of position and the spreading of wave packets 24 (1986) 327-331
- : On the phase operator 29 (1991) 377-382
- GRASSO, M. and P. TEOFILATTO: Gauge theories, flat superforms and reduction of super fiber bundles 25 (1988) 55-73
- GRÜMM, H.-J., *see* BAUMGARTNER, B. and H.-R. GRÜMM
- GRUNDLAND, A.M., *see* BURNAT, M. and A.M. GRUNDLAND
- GUTKIN, E.: Heisenberg-Ising spin chain and the non-linear Schrödinger equation 24 (1986) 121-127
- HAIDEGGER, W.: Basic facts about homoclinic and heteroclinic orbits and their importance in the theory of analytical chaos 30 (1991) 53-62
- : Melnikov's vector — a measure of chaos 30 (1991) 223-231
- HASIEWICZ, Z., A.K. KWAŚNIEWSKI and P. MORAWIEC: On parallelizable spheres, division algebras and Clifford algebras 23 (1986) 161-168
- HEINEMANN, V., *see* SANKAT, K. and V. HEINEMANN
- HUORTH, P.: On the Trotter formula computation of the kernel for the harmonic oscillator 21 (1985) 205-212
- HOLEVO, A.S.: Statistical definition of observable and the structure of statistical models 22 (1985) 385-407
- HOLOD, P.I. and A.U. KLIMYK: On representations of the groups $Sp(n, 1)$ and $Sp(n)$ 21 (1985) 127-142
- HOROWSKI, M., A. KRYSZEŃ and A. ODZIEWICZ: Classical and quantum mechanics on the unit ball in C^n 24 (1986) 351-363
- HUGHES, W., *see* FORTE, B. and W. HUGHES
- ICHIMURA, H.: Study on Maxwell equations 28 (1989) 299-316
- : Maxwell equations and constructive relations 28 (1989) 317-333
- INGARDEN, R.S. and A. KOSSAKOWSKI: The principle of maximum entropy and Boltzmann type kinetic equations 24 (1986) 177-186
- : Obituary. Akitsugu Kawaguchi (1902-1984) 25 (1988) 251-253
- : Two speeches on mathematical physics 28 (1989) 197-200
- IRAC-ASTAUD, M., *see* GINOCCHIO, M. and M. IRAC-ASTAUD
- ISHIKAWA, H.: On generalized Finsler metric $LL_{ij} - \alpha L_i L_j$ 25 (1988) 245-249
- ISHIKAWA, S.I.: Uncertainty relations in simultaneous measurements for arbitrary observables 29 (1991) 257-273
- JADCZYK, A. and D. KASTLER: Graded Lie-Cartan pairs 25 (1988) 1-53
- JAKÓBCZYK, L.: On representations of canonical commutation relations in indefinite metric quantum field theory 22 (1985) 71-77
- JAKUBIEC, A.: A gauge-independent canonical formalism for the Dirac-Maxwell theory 21 (1985) 177-196
- : On a hydrodynamical description of the Dirac equation 22 (1985) 227-233
- JAMIOŁKOWSKI, A.: On observability of N -level quantum systems 21 (1985) 101-109
- JANEČKO, S., J. KOMOROWSKI and T. MOSTOWSKI: Phase transitions in ferromagnets and singularities 21 (1985) 357-381
- and A. KOWALCZYK: Stability criteria and classification of singularities for equivariant Lagrangian submanifolds 26 (1988) 17-44
- JANICKI, J., *see* STRYCHARSKI, Z., J. CISŁO and J. JANICKI
- JANYSZEK, H.: On the Riemannian metrical structure in the classical statistical equilibrium thermodynamics 24 (1986) 1-10
- : On the geometrical structure of the generalized quantum Gibbs states 24 (1986) 11-19
- and R. MRUGAŁA: Geometrical structure of the state space in classical statistical and phenomenological thermodynamics 27 (1989) 145-159

- KADIANAKIS, N.: Affine connections and frames of reference in classical mechanics 30 (1991) 21-32
- KARNER, G., V.I. MANKO and L. STREIT: Quasi-energies, loss-energies and stochasticity 29 (1991) 177-193
- KARPIO, A., A. KRYSZEŃ and A. ODZIEWICZ: Two-twistor conformal Hamiltonian spaces 24 (1986) 65-80
- KASTLER, D., *see* JADCZYK, A. and D. KASTLER
- KAWAGUCHI, T., *see* MIRON, R. and T. KAWAGUCHI
- KAZIMIERCZYK, P.: On the stochastic inverse problem for the heat conduction equation 26 (1988) 245-259
- KELLER, K.: Orthoposets of extreme points and quantum logics 27 (1989) 169-178
- KERBRAT, Y., H. KERBRAT-LUNC and J. ŚNIATYCKI: A geometric interpretation of symmetry breaking in electroweak interactions 28 (1989) 201-212
- KERBRAT-LUNC, H., *see* KERBRAT, Y., H. KERBRAT-LUNC and J. ŚNIATYCKI
- KERN, J.-D.: On H -bounds for ultradistribution quantum fields 27 (1989) 271-280
- KIJOWSKI, J. and G. RUDOLPH: Hydrodynamical description of theories of gauge fields interacting with matter fields 21 (1985) 309-329
- , —, and A. THIELMANN: Symplectic structure of a non-Abelian Higgs model on the lattice 24 (1986) 377-384
- KISELEV, M.V., *see* ASANOV, G.S. and M.V. KISELEV
- KLIMYK, A.U., *see* HOLOD, P.I. and A.U. KLIMYK
- KLOTZ, L., *see* FRIEDRICH, J. and L. KLOTZ
- KOMOROWSKI, J., *see* JANECKO, S., J. KOMOROWSKI and T. MOSTOWSKI
- KONDRACKI, W. and M. KOZAK: The properties of the action of the quasi-gauge group on the space of Kaluza-Klein Riemannian metrics. Part I 29 (1991) 341-355
- , —: The properties of the action of the quasi-gauge group on the space of Kaluza-Klein Riemannian metrics. Part II 29 (1991) 357-376
- KOSSAKOWSKI, A., *see* INGARDEN, R.S. and A. KOSSAKOWSKI
- , and J. MACKOWIAK: Minimization of the free energy of large continuous quantum systems over product states 24 (1986) 365-376
- KOSYAK, A.V.: Extension of unitary representations of inductive limits of finite dimensional Lie groups 26 (1988) 285-302
- KOTULSKI, Z.: On the Markovian model of turbulent diffusion 24 (1986) 129-140
- KOWALCZYK, A., *see* JANECKO, S. and A. KOWALCZYK
- KOZAK, M., *see* KONDRACKI, W. and M. KOZAK, Part I
- , *see* KONDRACKI, W. and M. KOZAK, Part II
- KOZITSKY, YU. V.: Hierarchical model of a vector ferromagnet. Self-similar block-spin distributions and the Lee-Yang theorem 26 (1988) 429-445
- KRASIŃSKI, A.: A note on the uniqueness of the Wymann solution 29 (1991) 337-339
- KRÓLIKOWSKI, W.: On some Lagrangian model concerning the solitary waves 29 (1991) 123-139
- , D. LAMBERT, J. ŁAWRYNOWICZ and J. REMBIELŃSKI: The CR problem and Hurwitz pairs applied to field theory and solid state physics 29 (1991) 23-44
- KRYSZEŃ, A., *see* HOROWSKI, M., A. KRYSZEŃ and A. ODZIEWICZ
- , *see* KARPIO, A., A. KRYSZEŃ and A. ODZIEWICZ
- KTORIDES, C.N. and L.C. PAPALOUAS: A geometric realization of Van Hove's quantization prescription 30 (1991) 1-8
- KUBYSZIN, YU.A., O. RICHTER and G. RUDOLPH: On the equations of spontaneous compactification for Gauss-Bonnet extended Einstein-Cartan theory 30 (1991) 353-359
- KWAŚNIEWSKI, A.K.: Generalizations of Cauchy-Riemann equations 22 (1985) 133-148
- , *see* HASIEWICZ, Z., A.K. KWAŚNIEWSKI and P. MORAWIEC
- : Algebraic properties of the 3-state Potts model 26 (1988) 191-195
- : On maximally graded algebras and Walsh functions 26 (1988) 137-142
- : On peculiarity of the $p = 2$ case among the p -state Ising-like models 29 (1991) 17-21
- LAHTI, P.J.: On the role of projection postulate in quantum theory 21 (1985) 267-280

- : A coherent superposition principle and the Hilbertian quantum theory 22 (1985) 49–62
- : States of minimal uncertainty and maximal information for position and momentum observables in quantum theory 23 (1986) 289–297
- LAMBERT, D., *see* KRÓLIKOWSKI, W., D. LAMBERT, J. ŁAWRYNOWICZ and J. REMBIELIŃSKI
- LEVI, D.: Toward a unification of the various techniques used to integrate non-linear partial differential equations: Bäcklund and Darboux transformations vs. dressing method 23 (1986) 41–45
- LŁOSA, J., *see* BLAZQUEZ, C. and J. LŁOSA
- LUKIERSKI, L., *see* AZCÁRRAGA, J.A. DE, J. LUKIERSKI and J. NIEDERLE
- ŁAWRYNOWICZ, J., *see* KRÓLIKOWSKI, W., D. LAMBERT, J. ŁAWRYNOWICZ and J. REMBIELIŃSKI
- MAASSEN, H., *see* ROBINSON, P. and H. MAASSEN
- MAĆKOWIAK, J.: Phase transitions in a system of coupled Boson oscillators on a sphere 23 (1986) 269–288
- , *see* KOSSAKOWSKI, A. and J. MAĆKOWIAK
- : On the Bose–Einstein condensation of a quantum liquid 27 (1989) 11–18
- : Fermi gas with equivalent-neighbour Heisenberg interaction 30 (1991) 239–247
- MACZYŃSKI, M.J.: An abstract derivation of the inequality related to Heisenberg's uncertainty principle 21 (1985) 281–290
- : A simple derivation of Hückel's molecular orbitals in the framework of quantum logic 30 (1991) 81–88
- MANIÁ, A., *see* ABBATI, M.C. and A. MANIÁ
- MAN'KO, V.I., *see* KARNER, G., V.I. MAN'KO and L. STREIT
- MANOUKIAN, E.B.: Machinery for the analysis of field theories with zero-mass particles 21 (1985) 223–244
- : On the absence of logarithmic growths in mass parameters in renormalized perturbation theory 22 (1985) 373–384
- : On the absence of logarithmic growths in mass parameters in renormalized perturbation theory. II: Generalized conditions 24 (1986) 87–94
- MARCINEK, W.: Clifford structures on real vector spaces and manifolds 27 (1989) 361–375
- : Generalized Lie–Cartan pairs 27 (1989) 385–400
- : Colour superspaces and supermanifolds 29 (1991) 55–74
- : Unified field theory based on Clifford structures 29 (1991) 75–83
- MARINI, V. and A. PRÁSTARO: On the conservation laws of PDEs 26 (1988) 211–225
- MARMO, G. and G. MORANDI: On the inverse problem with symmetries and the appearance of cohomologies in classical Lagrangian dynamics 28 (1989) 389–409
- MASŁOWSKI, T., *see* PARCZYK, K. and T. MASŁOWSKI
- MATSUMOTO, M.: Randers spaces and constant curvature 28 (1989) 249–261
- : Projectively flat Finsler spaces with (α, β) -metric 30 (1991) 15–20
- MATTHES, R.: A general approach to connections: algebra and geometry 29 (1991) 141–175
- MAURIN, K.: Duality (polarity) in mathematics, physics and philosophy 25 (1988) 357–388
- MICHAŁSKI, M.: Nonlinear mixing dynamical systems 24 (1986) 305–313
- MIRMAN, R.: Transpositions and their diagonalization 29 (1991) 1–16
- MIRON, R., and M. RADIVOIOVICI-TATOIU: Extended Lagrangian theory of electromagnetism 27 (1989) 193–229
- and T. KAWAGUCHI: Generalized Lagrange metric derived from a Finsler function 30 (1991) 41–52
- MORANDI, G., *see* MARMO, G. and G. MORANDI
- MORAWIEC, P., *see* HASIEWICZ, Z., A.K. KWAŚNIEWSKI and P. MORAWIEC
- MOSTOWSKI, T., *see* JANEČKO, S., J. KOMOROWSKI and T. MOSTOWSKI
- MRUGAŁA, R.: Submanifolds in the thermodynamic phase space 21 (1985) 197–203
- , *see* JANYSZEK, H. and R. MRUGAŁA
- , J.D. NULTON, J.CH. SCHÖN and P. SALAMON: Contact structure in thermodynamic theory 29 (1991) 109–121

- NAPIÓRKOWSKI, K. and W. PUSZ: On a necessary condition for a generator 24 (1986) 333-336
- NARNHOFER, H.: Free energy and the dynamical entropy of space translation 25 (1988) 345-356
- NASH, CH. and S. SEN: Topological aspects of persistent flows in $^3\text{He-A}$ in a torroidal container 23 (1986) 1-7
- NAZIN, G.I. and A.F. NASHIN: The Bogolubov equation and the Vlasov equation in equilibrium classical statistical physics 21 (1985) 79-89
- NEIDHARDT, H.: On the orthogonal dissipative Lax-Philips scattering theory 26 (1988) 121-136
- : On the inverse problem of a dissipative scattering theory, II 28 (1989) 39-55
- NESSMANN, C., see BOLLÉ, D, F. GESZTESY, C. NESSMANN and L. STREIT
- NIEDERLE, J., see AZCÁRRAGA, J. A. DE, J. LUKIERSKI and J. NIEDERLE
- NIZHNIK, L.P.: The inverse scattering problems for the hyperbolic equations and their application to non-linear integrable systems 26 (1988) 261-283
- NULTON, J.D., see MRUGALA, R., J.D. NULTON, J.CH. SCHÖN and P. SALAMON
- ODZIEWICZ, A., see HOROWSKI, M., A. KRYSZEŃ and A. ODZIEWICZ
- , see KARPIO, A., A. KRYSZEŃ and A. ODZIEWICZ
- OHYA, M.: Some aspects of quantum information theory and their applications to irreversible processes 27 (1989) 19-47
- ORŁOWSKI, A. and K. SOBCZYK: Solitons and shock waves under random external noise 27 (1989) 59-71
- OSTROVSKII, V.L. and YU.S. SAMOILENKO: Unbounded operators satisfying non-Lie commutation relations 28 (1989) 91-104
- OTTESEN, J.T.: The Dirac equation with light-cone data 27 (1989) 287-297
- OZIEWICZ, Z.: Classical mechanics: inverse problem and symmetries 22 (1985) 91-111
- , and S. CIECHANOWICZ: A model for $\text{so}(5) = \text{sp}(4)$ Lie algebra 22 (1985) 79-90
- PADE, J., see RAUH, A. and J. PADE
- PAPALOUÇAS, L.C., see KTORIDES, C.N. and L.C. PAPALOUÇAS
- PARCZYK, K.: The Pinsker partition of the generalized Lorentz gas 22 (1985) 63-70
- : Space-transition ergodic theorem for physical quantities in infinite classical systems 24 (1986) 155-175
- : Time-average for physical quantities in infinite classical systems 24 (1986) 265-292
- and T. MASŁOWSKI: Thermodynamic limit and central limit theorem for point random fields in non-ergodic case 26 (1988) 1-15
- PEREIRA, J.G., see ALDROVANDI, R. and J.G. PEREIRA
- PESTOV, V.: Ground algebras for superanalysis 29 (1991) 275-287
- PETROV, A.: Invariantly ordered spectral Lie algebras as abstract dynamical systems 25 (1988) 151-160
- PETZ, D.: Quasi-entropies for finite quantum systems 23 (1986) 57-65
- PIECUCH, P.: On the addition theorems for solid spherical harmonics 24 (1986) 187-192
- PLUTA, J.: Lens effects in a Kerr field 29 (1991) 289-295
- PRÁSTARO, A., see MARINI, V., and A. PRÁSTARO
- : Quantum geometry of PDE's 30 (1991) 273-352
- PRUGOVEČKI, E. and S. WARLOW: Geometro-stochastic quantization and parallel transport of fermion fields in curved spacetime 28 (1989) 105-131
- PTÁK, P.: A note on Jauch-Piron states 23 (1986) 155-159
- PULMANNOVÁ, S. and B. STEHLÍKOVÁ: Strong law of large numbers and central limit theorem on a Hilbert space logic 23 (1986) 99-107
- : Functional properties of transition probability spaces 24 (1986) 81-86
- : Joint distributions of observables on spectral logics 26 (1988) 67-71
- , and A. DVUREČENESKIJ: Sum logics and sums of unbounded observables 28 (1989) 361-371
- PUSZ, W., see NAPIÓRKOWSKI, K. and W. PUSZ
- : Twisted canonical anticommutation relations 27 (1989) 349-360
- and S. L. WORONOWICZ: Twisted second quantization 27 (1989) 231-257
- PUTA, M.: Some remarks on the Dolbeault-Kostant couple 23 (1986) 129-138
- : Some remarks on the quantum geometry 27 (1989) 299-304

- QUASTHOFF, U.: On automorphisms of von Neumann algebras constructed by measure space transformations I 28 (1989) 411-423
- : On automorphisms of von Neumann algebras constructed by measure space transformations II 28 (1989) 425-437
- RABSZTYN, S.: Deficiency indices for Wick powers in one dimension 27 (1989) 161-178
- RADIOVOVICI-TATOIU, M., *see* MIRON, R. and M. RADIOVOVICI-TATOIU
- RAMM, A.D.: Wave scattering by small bodies 21 (1985) 69-77
- RAÑADA, M. F., *see* CARIÑENA, M.F. and M.F. RAÑADA
- RAUH, A. and J. PADE: Decoupling of dissipative flows by interval normal forms in the Poincaré domain 27 (1989) 179-192
- RAYSKI, J.: Search for generalized, quantizable dynamical models 25 (1988) 255-274
- REMBIELIŃSKI, J., *see* KRÓLIKOWSKI, W., D. LAMBERT, J. ŁAWRYNOWICZ and J. REMBIELIŃSKI
- REZENDE, J., *see* BLANCHARD, PH. and J. REZENDE
- RICHTER, O., *see* KUBYSHIN, YU. A., O. RICHTER and G. RUDOLPH
- ROBINSON, P. and H. MAASSEN: Quantum stochastic calculus and the dynamical Stark effect 30 (1991) 185-203
- RODRIGUEZ, M.A.: Some results about the relationship between Bargmann-Wigner and Gelfand-Yaglom equations 23 (1986) 9-18
- ROY, S.: Probabilistic Finsler geometry and the 4π -periodicity factor of a spinor wave function 26 (1988) 361-366
- RÓZGA, K.: Local decomposition of space-time metric structure into flat parts 21 (1985) 1-15
- : Deviating congruences of null strings in a certain class of H -spaces of algebraic N type 25 (1988) 119-127
- RUDOLPH, G., *see* KIJOWSKI, J. and G. RUDOLPH
- , *see* KIJOWSKI, J., G. RUDOLPH and A. THIELMANN
- , *see* KUBYSHIN, YU. A., O. RICHTER and G. RUDOLPH
- RUSKAI, M.B.: Extremal properties of relative entropy in quantum statistical mechanics 26 (1988) 143-150
- RÜTTIMANN, G.T.: Expectation functionals of observables and counters 21 (1985) 213-222
- , *see* COHEN, D.W. and G.T. RÜTTIMANN
- , *see* COOK, T.A. and G.T. RÜTTIMANN
- RZEWUSKI, J.: On some geometrical consequences of physical symmetries 22 (1985) 235-256
- : Quantization as group extension 26 (1988) 335-359
- : Matrix manifolds and symmetry breaking 28 (1989) 167-187
- : Supermatrix manifolds 29 (1991) 312-336
- SALAMON, P., *see* MRUGALA, R., J.D. NULTON, J. CH. SCHON and P. SALAMON
- , *see* TANNOR, D. and P. SALAMON
- SAMOILENKO, YU. S., *see* OSTROVSKII, V.L. and YU. S. SAMOILENKO
- SANKAT, K. and V. HEINEMANN: Estimates for the set of diverging points 28 (1989) 339-345
- SARDANASHVILI, G. and O. ZAKHAROV: On functional integrals in quantum field theory 29 (1991) 101-108
- SAUNDERS, D.J., *see* CRAMPIN, M. and D.J. SAUNDERS
- SCHAFLITZEL, R.: Some particle representations of the canonical commutation relations 25 (1988) 329-344
- SCHON, J.CH., *see* MRUGALA, R., J.D. NULTON, J.CH. SCHÖN and P. SALAMON
- SCHREYE DE, D.: Some concrete realizations of Bratteli-diagrams 22 (1985) 11-28
- SCHRÖDER, M.: On the Laplace operator with non-local boundary conditions and Bose condensation 27 (1989) 259-269
- SCHROEK, F.E.: Quantum fields for reproducing kernel Hilbert spaces 26 (1988) 197-209
- SCHRÖTTER, J.: An axiomatic basis of space-time theory. Part I: Construction of a casual space with coordinates 26 (1988) 303-333
- SCHWARZ, D.: On electromagnetic fields in the Hamiltonian description of continua 24 (1986) 293-304
- SCHWEIGER, W., *see* GESZTESY, F. and W. SCHWEIGER

- ŠEBA, P., *see* ENGLISH, H., and P. ŠEBA
 —: Some remarks on the δ' -interaction in one dimension 24 (1986) 111–120
 —, *see* EXNER, P. and P. ŠEBA
 —, *see* ENGLISH, H. and P. ŠEBA
 SEN, R.N., *see* BOSE, S.K. and R.N. SEN
 —, *see* NASH, Ch. and S. SEN
 SHEFTEL, M.B., *see* GARSEVANISHVILI, V.R. and M.B. SHEFTEL
 SHIBATA, C.: On Finsler geometry of thermodynamical states introduced by R.S. Ingarden 27 (1989) 377–384
 SIEDENTOP, H.K.H.: Dimension of eigenspaces of Schrödinger operators — Local Birman–Schwinger bound 21 (1985) 383–389
 —: Modification of Müller's variational principle for Schrödinger operators with spherical symmetric potential 22 (1985) 125–131
 — and R. WEIKARD: On some basic properties of density functionals for angular momentum channels 24 (1986) 193–218
 SINGH, T. and T. SINGH: Some general results in self-creation cosmologies 22 (1985) 171–175
 ŠIPOŠ, J.: The integral on quantum probability spaces is monotonic 21 (1985) 65–68
 ŚLAWIANOWSKA, A.K. and J.J. ŚLAWIANOWSKI: Quantization of affinely rigid body in n -dimensions 29 (1991) 297–320
 ŚLAWIANOWSKI, J.J.: Field of linear frames as a fundamental self-interacting system 22 (1985) 323–371
 —: Lie-algebraic solutions of affinely-invariant equations for the field of linear frames 23 (1986) 177–197
 —: Affinely rigid body and Hamiltonian systems on $GL(n, \mathbb{R})$ 26 (1988) 73–119
 —, *see* ŚLAWIANOWSKA, A.K. and J.J. ŚLAWIANOWSKI
 ŚNIATYCKI, J.: Conservation laws in asymptotically flat space times revisited 25 (1988) 129–142
 —: Gauge invariance, boundary conditions, and charges 25 (1988) 291–303
 —, *see* KERBRAT, Y., H. KERBRAT-LUNC and J. ŚNIATYCKI
 SOBCZYK, K., *see* ORŁOWSKI, A. and K. SOBCZYK
 SOLOVEJ, J. P.: Some simple counterexamples of the Onsager lemma on metric spaces 28 (1989) 335–338
 STARK, H.-G.: A note on induced group representations and covariant representations of C^* -algebras 23 (1986) 349–355
 STASZEWSKI, P., *see* BELAVKIN, V.P. and P. STASZEWSKI
 STAVRINOS, P.C., *see* ASANOV, G.S. and P.C. STAVRINOS
 STEHLIKOVÁ, B., *see* PULMANNOVÁ, S. and B. STEHLIKOVÁ
 STREIT, L., *see* BOLLÉ, D., F. GESZTESY, C. NESSMANN and L. STREIT
 — and I.T. TODOROV: Exact solution of a relativistic quasipotential equation for charged spinless particles 24 (1986) 95–110
 —, *see* KARNER, G., V.I. MANKO and L. STREIT
 STRYCHARSKI, Z., J. CISLO and J. JANICKI: Double-chain Ising model with interchain multispin interactions as a soluble problem of many fermions 28 (1989) 147–158
 —, *see* CISLO, J. and Z. STRYCHARSKI
 TAKESUE, K.: Spatial theory for algebras of unbounded operators 21 (1985) 347–355
 TANNOR, D. and P. SALAMON: A novel Euler–Lagrange equation arising in the optimization of photochemical branching ratios 30 (1991) 233–238
 TARAKANOV, A.N.: On certain isometric representations for multidimensional spaces of constant curvature 29 (1991) 195–212
 —: On the isometric representations for multidimensional pseudoconic spaces 30 (1991) 163–168
 TEOFILATTO, P., *see* GRASSO, M. and P. TEOFILATTO
 THIELMANN, A., *see* KUJOWSKI, J., G. RUDOLPH and A. THIELMANN
 TODOROV, I. T., *see* STREIT, L. and I.T. TODOROV
 TRUINI, P., *see* CASSINELLI, G. and P. TRUINI
 TUCKER, R., *see* BENN, M. and R.W. TUCKER
 —: The motion of membranes in space-time 28 (1989) 141–145

- UHLMANN, A.: Parallel transport and „quantum holonomy” along density operators 24 (1986) 229–240
- ULLRICH, M.: Calculation of the limiting Gibbs states for weakly coupled macroscopic quantum systems with application to the Josephson oscillator 23 (1986) 67–81
- URBANIK, W.: The Schur multipliers of generalized reflection groups 25 (1988) 99–109
- URBANTKE, H.: On complex-valued scalar waves of the simply-progressive type 21 (1985) 111–119
- US, G. F., see BEREZANSKY, YU. M., N.W. ZHERNAKOV and G.F. US
- WARLOW, S., see PRUGOVEČKI E. and S. WARLOW
- WEHRL, A.: The many facets of entropy 30 (1991) 119–129
- WEIKARD, R., see SIEDENTOP, H.K.H. and R. WEIKARD
- WERTH, J.-E.: Conformal group and Segal's cosmology 23 (1986) 257–268
- WOLF, K.B., see ATA KISHIYEV, N.M. and K.B. WOLF
- WOLF, M.: On the Cat mapping and Fibonacci numbers 29 (1991) 383–386
- WOLLENBERG, M.: On the relations between quantum fields and local algebras of observables 22 (1985) 409–417
- , see BAUMGÄRTEL, H. and M. WOLLENBERG
- WOŁOWIEC, P.: Orbit structures of $H^2(P, T)$ of cyclic point groups in R^n 23 (1986) 357–361
- WORONOWICZ, S.L., see PUZ, W. and S.L. WORONOWICZ
- : New quantum deformation of $SL(2, C)$ -Hopf algebra level 30 (1991) 259–269
- ZAIKOV, R. P.: On a class of relativistic equations for fields with arbitrary spin 21 (1985) 91–100
- ZAKHAROV, O., see SARDANASHVILI, G. and O. ZAKHAROV
- ZAKRZEWSKI, S.: Continuum limit of lattice dynamics 21 (1985) 331–345
- : Hamiltonian group representations and phase actions 28 (1989) 189–196
- ZHERNAKOV, N. W., see BEREZANSKI, YU.M., N.W. ZHERNAKOV and G.F. US

BOOK REVIEWS

- O. BRATTELI and D.W. ROBINSON: *Operator Algebras and Quantum Statistical Mechanics II, Equilibrium States, Models in Quantum Statistical Mechanics* (ref. J. Maćkowiak) 21 (1985) 419–420
- R. K. DODD, J.C. EILBECK, J.D. GIBBON and H.C. MORRIS: *Solitons and Nonlinear Wave Equations* (ref. K. Stefański) 21 (1985) 420–421
- B. MANDELBROT: *Fractals: Form, Chance and Dimension* (ref. K. Stefański) 21 (1985) 421–422
- M.M. SYSŁO, N. DEO and J. S. KOWALIK: *Discrete Optimization Algorithms with Pascal Programs* (ref. M. Michalski) 22 (1985) 293–294
- J. VOM SCHEIDT and W. PURKERT: *Random Eigenvalue Problems* (ref. R.S. Ingarden and K. Sobczyk) 22 (1985) 419–421
- L. GARRIDO (editor): *Applications of Field Theory to Statistical Mechanics*, Proceedings of the Sitges Conference on Statistical Mechanics, Sitges, Barcelona, Spain, June 10–15, 1984 (ref. J. Maćkowiak) 23 (1986) 409–410
- R. ABRAHAM, J.E. MARSDEN and T. RATIU: *Manifolds, Tensor Analysis and Applications, Global Analysis — Pure and Applied* (ref. K. Stefański) 24 (1986) 257–258
- K. KRAUS: *States, Effects and Operations. Fundamental Notions of Quantum Theory* (ref. W. Daniel) 24 (1986) 258–261
- P. LAHTI and P. MITTELSTAEDT (editors): *Symposium on the Foundations of Modern Physics* (ref. A. Raczynski) 24 (1986) 261–262
- K. SOBCZYK: *Stochastic Differential Equations for Applications* (ref. R.S. Ingarden) 24 (1986) 263
- A. VAN DER MERVE (editor): *Old and New Questions in Physics, Cosmology, Philosophy and Theoretical Biology. Essays in Honour of Wolfgang Yourgrau* (ref. W. Daniel) 24 (1986) 385–387
- J.E. WESFREID and S. ZALESKI (editors): *Cellular Structures in Instabilities* (ref. K. Stefański) 24 (1986) 387–388
- K. SOBCZYK: *Stochastic Wave Propagation* (ref. R.S. Ingarden) 25 (1988) 389–390
- D. HESTENES: *New Foundations for Classical Mechanics* (ref. B. Jancewicz) 26 (1988) 151–154
- V.S. VARADARAJAN: *Geometry of Quantum Theory* (ref. W. Daniel) 26 (1988) 154–156

D. C. MATTIS: <i>The Theory of Magnetism II, Thermodynamics and Statistical Mechanics</i> (ref. J. Maćkowiak)	27 (1989)	281-282
W. LUDWIG and C. FALTER: <i>Symmetries in Physics. Group Theory Applied to Physical Problems</i> (ref. R. Mrugała)	27 (1989)	282-283
S. GALLOT, D. HULIN and J. LAFONTAINE: <i>Riemannian Geometry</i> (ref. R. Mrugała)	27 (1989)	283-285
R. MAÑÉ: <i>Ergodic Theory and Differentiable Dynamics</i> (ref. K. Parczyk)	28 (1989)	439-441
P.J. OLVER: <i>Applications of Lie Groups to Differential Equations</i> (ref. A. Jamiolkowski)	28 (1989)	-442
T.H. SELIGMAN and H. NISHIOKA (editors): <i>Quantum Chaos and Statistical Nuclear Physics</i> (ref. K. Stefański)	28 (1989)	443-444
G.L. BAKER and J.P. GOLLUB: <i>Chaotic Dynamics</i> (ref. M.R. Michalski)	29 (1991)	387-388
N.H. MARCH: <i>Liquid Metals, Concepts and Theory</i> (ref. J. Maćkowiak)	30 (1991)	271-272